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1. 8.2.1F: Development of System to Automate Analysis of Fisheries Information from Digital Stills

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Image recording systems are increasingly being used by the National Marine Fisheries Service (NMFS) for a multitude of applications. These systems collect aerial images of marine mammals, images of fish catch landed on the deck of vessels, as well as underwater images of fish from a variety of platforms including Remotely Operated Vehicles (ROVs), Autonomous Underwater Vehicles (AUVs) and ...

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2. 8.2.2R: Optimized CO2 Gas Sensor for Autonomous Measurement of Ocean Carbon

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: A full understanding of the ocean carbon budget is not currently possible due to a lack of seasonal and geographic coverage of ocean carbon measurements. In order to address this knowledge gap, there is a pressing need for expanded autonomous, in situ, ocean carbon monitoring. Ocean carbon instruments that use non-dispersive infrared gas analyzer (NDIR) technology have a well proven tra ...

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3. 8.3: Climate Adaptation and Mitigation

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios 8.3 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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4. 8.3.1R,C: Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Atmospheric carbon dioxide (CO2) and methane (CH4) are the dominant contributors to global radiative forcing, and monitoring their concentrations is vital for understanding changes in Earth’s climate. Interpreting variations of atmospheric CO2 and CH4 allow sources and sinks of carbon to be determined. Currently, ultra-high precision laboratory-based measurements for CO2 and CH4 usi ...

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5. 8.4: Weather-Ready Nation

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Geospatial Database for Storm Risk Assessment Multi-Purpose Above Surface/Below Surface Expendable Dropsondes (MASED) New METSAT Display Service for Weather-Ready Nation Rip Current Sensor and Warning System Unmanned Aircraft ...

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6. 8.4.1D: Geospatial Database for Storm Risk Assessment

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: There is a large research focus on climate, extreme weather events, and storm risk planning. The protection, planning, and response to these challenges are central to NOAA’s mission, including disaster planning, mitigation, and recovery. Better preparedness and improved recovery can help save lives, reduce costs, and provide comfort. Algorithms developed at NOAA use Weather Surveil ...

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7. 8.4.2W: Multi-Purpose Above Surface/Below Surface Expendable Dropsondes (MASED)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: NOAA's mission on the oceans spans such different factors ranging from hurricane forecasts to determination of hypoxia zones to assessment of fisheries stocks. There is a current need for improving the quality of forecasting changes of hurricane intensity and to develop affordable sensors of dissolved oxygen for the determination of the extent of hypoxia zones. Some of the factors inf ...

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8. 8.4.3W-P: New METSAT Display Service for Weather-Ready Nation

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Americans depend on the National Weather Service for real time warnings and forecasts of severe weather, any time of the year and any location across the nation, to include the 48 contiguous states, Alaska, Hawaii and its territories. The satellite imagery on the main NWS link shows very little useful information for customers, is not actionable, and actually confuses those who look at it ...

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9. 8.4.4W-P: Rip Current Sensor and Warning System

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: An average of 60,000 water rescues occur every year in the United States and 80% of them are due to rip currents. What is needed is a system that can detect the presence of rip currents, or dangerous longshore currents, and convey this information to the public in real-time. Innovation is needed to make the system efficient, tamper proof and cost-effective in all water environments. The s ...

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10. 8.4.5R,W-P: Unmanned Aircraft System-Borne-Atmospheric and Sea Surface Temperature (SST) Sensing

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Weather observations of atmospheric temperature, pressure, moisture, wind speed and wind direction in the atmospheric boundary layer are extremely important for a better understanding of how the detailed interactions of the atmosphere and the ocean influence the development of high impact weather events such as hurricanes and other storms at sea. Improving this understanding of air-sea in ...

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